

| International table | | | United States table | | FCC use designators | |
|--|--|--|--|---|---|--|
| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 13360 – 13410 FIXED RADIO ASTRONOMY S5.149 | 13360 – 13410 FIXED RADIO ASTRONOMY S5.149 | 13360 – 13410 FIXED RADIO ASTRONOMY S5.149 | 13360 – 13410 RADIO ASTRONOMY S5.149 G115 | 13360 – 13410 RADIO ASTRONOMY S5.149 | | |
| 13410 – 13570 FIXED MOBILE except aero- nautical mobile (R) S5.150 | 13410 – 13570 FIXED MOBILE except aero- nautical mobile (R) S5.150 | 13410 – 13570 FIXED MOBILE except aero- nautical mobile (R) S5.150 | 13410 – 13570 FIXED Mobile except aero- nautical mobile (R) S5.150 US340 | 13410 – 13570 FIXED S5.150 US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | 13560 ± 7 kHz: industrial, scientific and medical |
| 13570 – 13600 BROADCASTING S5.134 S5.135 S5.151 | 13570 – 13600 BROADCASTING S5.134 S5.135 S5.151 | 13570 – 13600 BROADCASTING S5.134 S5.135 S5.151 | 13570 – 13600 FIXED Mobile except aero- nautical mobile (R) US340 | 13570 – 13600 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 13600 – 13800 BROADCASTING S5.148 | 13600 – 13800 BROADCASTING S5.148 | 13600 – 13800 BROADCASTING S5.148 | 13600 – 13800 BROADCASTING S5.148 US340 | 13600 – 13800 BROADCASTING S5.148 US340 | RADIO BROADCAST (HF)(73) INTERNATIONAL FIXED PUBLIC (23) | |
| 13800 – 13870 BROADCASTING S5.134 S5.135 S5.151 | 13800 – 13870 BROADCASTING S5.134 S5.135 S5.151 | 13800 – 13870 BROADCASTING S5.134 S5.135 S5.151 | 13800 – 13870 FIXED Mobile except aero- nautical mobile (R) US340 | 13800 – 13870 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 13870 – 14000 FIXED Mobile except aero- nautical mobile (R) | 13870 – 14000 FIXED Mobile except aero- nautical mobile (R) | 13870 – 14000 FIXED Mobile except aero- nautical mobile (R) | 13870 – 14000 FIXED Mobile except aero- nautical mobile (R) US340 | 13870 – 14000 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |

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|---|---|---|---|---|---|-------------------------------------|
| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 14000 – 14250 AMATEUR S5.120 AMATEUR-SATELLITE | 14000 – 14250 AMATEUR S5.120 AMATEUR-SATELLITE | 14000 – 14250 AMATEUR S5.120 AMATEUR-SATELLITE | 14000 – 14250 US340 | 14000 – 14250 AMATEUR S5.120 AMATEUR-SATELLITE US340 | AMATEUR (97) | |
| 14250 – 14350 AMATEUR S5.120 S5.152 | 14250 – 14350 AMATEUR S5.120 | 14250 – 14350 AMATEUR S5.120 S5.152 | 14250 – 14350 US340 | 14250 – 14350 AMATEUR S5.120 US340 | AMATEUR (97) | |
| 14350 – 14990 FIXED Mobile except aero- nautical mobile (R) | 14350 – 14990 FIXED Mobile except aero- nautical mobile (R) | 14350 – 14990 FIXED Mobile except aero- nautical mobile (R) | 14350 – 14990 FIXED Mobile except aero- nautical mobile (R) US340 | 14350 – 14990 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 14990 – 15005 STANDARD FRE- QUENCY AND TIME SIGNAL (15000 kHz) S5.111 | 14990 – 15005 STANDARD FRE- QUENCY AND TIME SIGNAL (15000 kHz) S5.111 | 14990 – 15005 STANDARD FRE- QUENCY AND TIME SIGNAL (15000 kHz) S5.111 | 14990 – 15005 STANDARD FRE- QUENCY AND TIME SIGNAL (15000 kHz) S5.111 US340 | 14990 – 15005 STANDARD FREQUENCY AND TIME SIGNAL S5.111 US340 | | 15000 kHz: standard frequency |
| 15005 – 15010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 15005 – 15010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 15005 – 15010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 15005 – 15010 STANDARD FREQUENCY AND TIME SIGNAL US340 G106 | 15005 – 15010 STANDARD FREQUENCY AND TIME SIGNAL US340 | | |
| 15010 – 15100 AERONAUTICAL MOBILE (OR) | 15010 – 15100 AERONAUTICAL MOBILE (OR) | 15010 – 15100 AERONAUTICAL MOBILE (OR) | 15010 – 15100 AERONAUTICAL MOBILE (OR) US340 | 15010 – 15100 AERONAUTICAL MOBILE (OR) US340 | | |
| 15100 – 15600 BROADCASTING S5.148 | 15100 – 15600 BROADCASTING S5.148 | 15100 – 15600 BROADCASTING S5.148 | 15100 – 15600 BROADCASTING S5.148 US340 | 15100 – 15600 BROADCASTING S5.148 US340 | RADIO BROADCAST (HF)(73) INTERNATIONAL FIXED PUBLIC (23) | |

| International table | | | United States table | | FCC use designators | |
|--|--|--|--|--|--|----------------------------|
| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 15600 – 15800 BROADCASTING S5.134 S5.135 | 15600 – 15800 BROADCASTING S5.134 S5.135 | 15600 – 15800 BROADCASTING S5.134 S5.135 | 15600 – 15800 FIXED | 15600 – 15800 FIXED | AVIATION (87) INTERNATIONAL PUBLIC FIXED (23) | |
| S5.146 | S5.146 | S5.146 | US340 | US340 | | |
| 15800 – 16360 FIXED | 15800 – 16360 FIXED | 15800 – 16360 FIXED | 15800 – 16360 FIXED | 15800 – 16360 FIXED | AVIATION (87) INTERNATIONAL PUBLIC FIXED (23) | |
| S5.153 | S5.153 | S5.153 | US340 | US340 | | |
| 17410 – 17480 FIXED | 17410 – 17480 FIXED | 17410 – 17480 FIXED | 17410 – 17480 FIXED | 17410 – 17480 FIXED | AVIATION (87) INTERNATIONAL PUBLIC FIXED (23) | |
| | | | US340 | US340 | | |
| 17480 – 17550 BROADCASTING S5.134 S5.135 | 17480 – 17550 BROADCASTING S5.134 S5.135 | 17480 – 17550 BROADCASTING S5.134 S5.135 | 17480 – 17550 FIXED | 17480 – 17550 FIXED | AVIATION (87) INTERNATIONAL PUBLIC FIXED (23) | |
| S5.146 | S5.146 | S5.146 | US340 | US340 | | |
| 17550 – 17900 BROADCASTING | 17550 – 17900 BROADCASTING | 17550 – 17900 BROADCASTING | 17550 – 17900 BROADCASTING | 17550 – 17900 BROADCASTING | RADIO BROADCAST (HF) (73) INTERNATIONAL FIXED PUBLIC (23) | |
| S5.148 | S5.148 | S5.148 | S5.148 US340 | S5.148 US340 | | |
| 17900 – 17970 AERONAUTICAL MOBILE (R) | 17900 – 17970 AERONAUTICAL MOBILE (R) | 17900 – 17970 AERONAUTICAL MOBILE (R) | 17900 – 17970 AERONAUTICAL MOBILE (R) | 17900 – 17970 AERONAUTICAL MOBILE (R) | AVIATION (87) | |
| | | | US283 US340 | US283 US340 | | |
| 17970 – 18030 AERONAUTICAL MOBILE (OR) | 17970 – 18030 AERONAUTICAL MOBILE (OR) | 17970 – 18030 AERONAUTICAL MOBILE (OR) | 17970 – 18030 AERONAUTICAL MOBILE (OR) | 17970 – 18030 AERONAUTICAL MOBILE (OR) | | |
| | | | US340 | US340 | | |

| | | | | | | |
|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---|--|
| 18030 - 18052 FIXED | 18030 - 18052 FIXED | 18030 - 18052 FIXED | 18030 - 18052 FIXED US340 | 18030 - 18052 FIXED US340 | INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---|--|

| International table | | | United States table | | FCC use designators | |
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| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 18052 – 18068 FIXED Space Research | 18052 – 18068 FIXED Space Research | 18052 – 18068 FIXED Space Research | 18052 – 18068 FIXED US340 | 18052 – 18068 FIXED US340 | INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
| 18068 – 18168 AMATEUR S5.120 AMATEUR-SATELLITE S5.154 | 18068 – 18168 AMATEUR S5.120 AMATEUR-SATELLITE | 18068 – 18168 AMATEUR S5.120 AMATEUR-SATELLITE | 18068 – 18168 US340 | 18068 – 18168 AMATEUR S5.120 AMATEUR-SATELLITE US340 | AMATEUR (97) INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
| 18168 – 18780 FIXED Mobile except aeronautical mobile | 18168 – 18780 FIXED Mobile except aeronautical mobile | 18168 – 18780 FIXED Mobile except aeronautical mobile | 18168 – 18780 FIXED Mobile US340 | 18168 – 18780 FIXED Mobile US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
| 18780 – 18900 MARITIME MOBILE | 18780 – 18900 MARITIME MOBILE | 18780 – 18900 MARITIME MOBILE | 18780 – 18900 MARITIME MOBILE US82 US296 US340 | 18780 – 18900 MARITIME MOBILE US82 US296 US340 | INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
| 18900 – 19020 BROADCASTING S5.134 S5.135 S5.146 | 18900 – 19020 BROADCASTING S5.134 S5.135 S5.146 | 18900 – 19020 BROADCASTING S5.134 S5.135 S5.146 | 18900 – 19020 FIXED US340 | 18900 – 19020 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 19020 – 19680 FIXED | 19020 – 19680 FIXED | 19020 – 19680 FIXED | 19020 – 19680 FIXED US340 | 19020 – 19680 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 19680 – 19800 MARITIME MOBILE S5.132 | 19680 – 19800 MARITIME MOBILE S5.132 | 19680 – 19800 MARITIME MOBILE S5.132 | 19680 – 19800 MARITIME MOBILE S5.132 US340 | 19680 – 19800 MARITIME MOBILE S5.132 US340 | MARITIME (80) | |
| 19800 – 19900 FIXED | 19800 – 19900 FIXED | 19800 – 19900 FIXED | 19800 – 19900 FIXED US340 | 19800 – 19900 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |

| International table | | | United States table | | FCC use designators | |
|---|---|---|--|---|--|------------------------------------|
| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 19900 – 19995 STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 | 19900 – 19995 STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 | 19900 – 19995 STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 | 19900 – 19995 STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 US340 G106 | 19900 – 19995 STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111 US340 | | |
| 19995 – 20010 STANDARD FRE- QUENCY AND TIME SIGNAL (20000 kHz) S5.111 | 19995 – 20010 STANDARD FRE- QUENCY AND TIME SIGNAL (20000 kHz) S5.111 | 19995 – 20010 STANDARD FRE- QUENCY AND TIME SIGNAL (20000 kHz) S5.111 | 19995 – 20010 STANDARD FREQUENCY AND TIME SIGNAL S5.111 US340 G106 | 19995 – 20010 STANDARD FREQUENCY AND TIME SIGNAL S5.111 US340 | | 2000 kHz: standard frequency |
| 20010 – 21000 FIXED Mobile | 20010 – 21000 FIXED Mobile | 20010 – 21000 FIXED Mobile | 20010 – 21000 FIXED Mobile US340 | 20010 – 21000 FIXED US340 | | |
| 21000 – 21450 AMATEUR S5.120 AMATEUR-SATELLITE | 21000 – 21450 AMATEUR S5.120 AMATEUR-SATELLITE | 21000 – 21450 AMATEUR S5.120 AMATEUR-SATELLITE | 21000 – 21450 US340 | 21000 – 21450 AMATEUR S5.120 AMATEUR-SATELLITE US340 | AMATEUR (97) | |
| 21450 – 21850 BROADCASTING S5.148 | 21450 – 21850 BROADCASTING S5.148 | 21450 – 21850 BROADCASTING S5.148 | 21450 – 21850 BROADCASTING S5.148 US340 | 21450 – 21850 BROADCASTING S5.148 US340 | INTERNATIONAL FIXED PUBLIC (23) RADIO BROADCAST (HF) (73) | |
| 21850 – 21870 FIXED S5.155A S5.155 | 21850 – 21870 FIXED S5.155 | 21850 – 21870 FIXED S5.155 | 21850 – 21870 FIXED US340 | 21850 – 21870 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 21870 – 21924 FIXED S5.155B | 21870 – 21924 FIXED S5.155B | 21870 – 21924 FIXED S5.155B | 21870 – 21924 FIXED US340 | 21870 – 21924 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |

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| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 21924 – 22000 AERONAUTICAL MOBILE (R) | 21924 – 22000 AERONAUTICAL MOBILE (R) | 21924 – 22000 AERONAUTICAL MOBILE (R) | 21924 – 22000 AERONAUTICAL MOBILE (R) US340 | 21924 – 22000 AERONAUTICAL MOBILE (R) US340 | AVIATION (87) | |
| 22000 – 22855 MARITIME MOBILE S5.132 S5.156 | 22000 – 22855 MARITIME MOBILE S5.132 | 22000 – 22855 MARITIME MOBILE S5.132 | 22000 – 22855 MARITIME MOBILE S5.132 US82 US296 US340 | 22000 – 22855 MARITIME MOBILE S5.132 US82 US296 US340 | INTERNATIONAL FIXED PUBLIC (23) MARITIME (80) | |
| 22855 – 23000 FIXED S5.156 | 22855 – 23000 FIXED | 22855 – 23000 FIXED | 22855 – 23000 FIXED US340 | 22855 – 23000 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 23000 – 23200 FIXED Mobile except aero- nautical mobile (R) S5.156 | 23000 – 23200 FIXED Mobile except aero- nautical mobile (R) | 23000 – 23200 FIXED Mobile except aero- nautical mobile (R) | 23000 – 23200 FIXED Mobile except aero- nautical mobile (R) US340 | 23000 – 23200 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 23200 – 23350 AERONAUTICAL MOBILE (OR) FIXED S5.156A | 23200 – 23350 AERONAUTICAL MOBILE (OR) FIXED S5.156A | 23200 – 23350 AERONAUTICAL MOBILE (OR) FIXED S5.156A | 23200 – 23350 AERONAUTICAL MOBILE (OR) US340 | 23200 – 23350 AERONAUTICAL MOBILE (OR) US340 | | |
| 23350 – 24000 FIXED MOBILE except aeronautical mobile S5.157 | 23350 – 24000 FIXED MOBILE except aeronautical mobile S5.157 | 23350 – 24000 FIXED MOBILE except aeronautical mobile S5.157 | 23350 – 24000 FIXED MOBILE except aeronautical mobile US340 | 23350 – 24000 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 24000 – 24890 FIXED LAND MOBILE | 24000 – 24890 FIXED LAND MOBILE | 24000 – 24890 FIXED LAND MOBILE | 24000 – 24890 FIXED MOBILE except aeronautical mobile US340 | 24000 – 24890 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |

| International table | | | United States table | | FCC use designators | |
|---|---|---|---|---|--|-------------------------------------|
| Region 1 -- allocation kHz | Region 2 -- allocation kHz | Region 3 -- allocation kHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 24890 – 24990 AMATEUR S5.120 AMATEUR-SATELLITE | 24890 – 24990 AMATEUR S5.120 AMATEUR-SATELLITE | 24890 – 24990 AMATEUR S5.120 AMATEUR-SATELLITE | 24890 – 24990 US340 | 24890 – 24990 AMATEUR S5.120 AMATEUR-SATELLITE US340 | AMATEUR (97) | |
| 24990 – 25005 STANDARD FRE- QUENCY AND TIME SIGNAL (25000 kHz) | 24990 – 25005 STANDARD FRE- QUENCY AND TIME SIGNAL (25000 kHz) | 24990 – 25005 STANDARD FRE- QUENCY AND TIME SIGNAL (25000 kHz) | 24990 – 25005 STANDARD FREQUENCY AND TIME SIGNAL US340 | 24990 – 25005 STANDARD FREQUENCY AND TIME SIGNAL US340 | | 25000 kHz: standard frequency |
| 25005 – 25010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 25005 – 25010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 25005 – 25010 STANDARD FREQUENCY AND TIME SIGNAL Space Research | 25005 – 25010 STANDARD FREQUENCY AND TIME SIGNAL US340 G106 | 25005 – 25010 STANDARD FREQUENCY AND TIME SIGNAL US340 | | |
| 25010 – 25070 FIXED MOBILE except aeronautical mobile | 25010 – 25070 FIXED MOBILE except aeronautical mobile | 25010 – 25070 FIXED MOBILE except aeronautical mobile | 25010 – 25070 US340 | 25010 – 25070 LAND MOBILE US340 NG112 | PRIVATE LAND MOBILE (90) | |
| 25070 – 25210 MARITIME MOBILE | 25070 – 25210 MARITIME MOBILE | 25070 – 25210 MARITIME MOBILE | 25070 – 25210 MARITIME MOBILE US82 US281 US296 US340 | 25070 – 25210 MARITIME MOBILE US82 US281 US296 US340 NG112 | MARITIME (80) PRIVATE LAND MOBILE (90) | |
| 25210 – 25330 FIXED MOBILE except aeronautical mobile | 25210 – 25330 FIXED MOBILE except aeronautical mobile | 25210 – 25330 FIXED MOBILE except aeronautical mobile | 25210 – 25330 US340 | 25210 – 25330 LAND MOBILE US340 | PRIVATE LAND MOBILE (90) | |
| 25330 – 25550 FIXED MOBILE except aeronautical mobile | 25330 – 25550 FIXED MOBILE except aeronautical mobile | 25330 – 25550 FIXED MOBILE except aeronautical mobile | 25330 – 25550 FIXED MOBILE except aeronautical mobile US340 | 25330 – 25550 US340 | | |

| International table | | | United States table | | FCC use designators | |
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| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 25550 – 25670 RADIO ASTRONOMY | 25550 – 25670 RADIO ASTRONOMY | 25550 – 25670 RADIO ASTRONOMY | 25550 – 25670 RADIO ASTRONOMY US74 | 25550 – 25670 RADIO ASTRONOMY US74 | | |
| S5.149 | S5.149 | S5.149 | S5.149 | S5.149 | | |
| 25670 – 26100 BROADCASTING | 25670 – 26100 BROADCASTING | 25670 – 26100 BROADCASTING | 25670 – 26100 BROADCASTING US25 US340 | 25670 – 26100 BROADCASTING US25 US340 | RADIO BROADCAST (HF) (73) Remote Pickup (74D) | |
| 26100 – 26175 MARITIME MOBILE S5.132 | 26100 – 26175 MARITIME MOBILE S5.132 | 26100 – 26175 MARITIME MOBILE S5.132 | 26100 – 26175 MARITIME MOBILE S5.132 US340 | 26100 – 26175 MARITIME MOBILE S5.132 US340 | AUXILIARY BROAD- CASTING (74) MARITIME (80) | |
| 26175 – 26480 FIXED MOBILE except aeronautical mobile | 26175 – 26480 FIXED MOBILE except aeronautical mobile | 26175 – 26480 FIXED MOBILE except aeronautical mobile | 26175 – 26480 US340 | 26175 – 26480 LAND MOBILE US340 | AUXILIARY BROAD- CASTING (74) | |
| 26480 – 26950 FIXED MOBILE except aeronautical mobile | 26480 – 26950 FIXED MOBILE except aeronautical mobile | 26480 – 26950 FIXED MOBILE except aeronautical mobile | 26480 – 26950 FIXED MOBILE except aeronautical mobile US10 US340 | 26480 – 26950 US10 US340 | | |
| 26950 – 26960 FIXED MOBILE except aeronautical mobile S5.150 | 26950 – 26960 FIXED MOBILE except aeronautical mobile S5.150 | 26950 – 26960 FIXED MOBILE except aeronautical mobile S5.150 | 26950 – 26960 S5.150 US340 | 26950 – 26960 FIXED S5.150 US340 | INTERNATIONAL FIXED PUBLIC (23) | |
| 26960 – 27230 FIXED MOBILE except aeronautical mobile S5.150 | 26960 – 27230 FIXED MOBILE except aeronautical mobile S5.150 | 26960 – 27230 FIXED MOBILE except aeronautical mobile S5.150 | 26960 – 27230 S5.150 US340 | 26960 – 27230 MOBILE except aeronautical mobile S5.150 US340 | PERSONAL (95) | 27120 ± 163 kHz: industrial, scientific and medical |

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| (1) | (2) | (3) | Allocation kHz (4) | Allocation kHz (5) | (6) | (7) |
| 27230 – 27410 FIXED MOBILE except aeronautical mobile S5.150 | 27230 – 27410 FIXED MOBILE except aeronautical mobile S5.150 | 27230 – 27410 FIXED MOBILE except aeronautical mobile S5.150 | 27230 – 27410 S5.150 US340 | 27230 – 27410 FIXED MOBILE except aeronautical mobile S5.150 US340 | PERSONAL (95) PRIVATE LAND MOBILE (90) | |
| 27410 – 27500 FIXED MOBILE except aeronautical mobile | 27410 – 27500 FIXED MOBILE except aeronautical mobile | 27410 – 27500 FIXED MOBILE except aeronautical mobile | 27410 – 27500 US340 | 27410 – 27500 FIXED LAND MOBILE US340 | PRIVATE LAND MOBILE (90) | |

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|---|---|---|--|--|-----------------------------|----------------------------|
| Region 1 -- allocation MHz | Region 2 -- allocation MHz | Region 3 -- allocation MHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation MHz (4) | Allocation MHz (5) | (6) | (7) |
| 27.5 – 27.54 METEOROLOGICAL AIDS FIXED MOBILE | 27.5 – 27.54 METEOROLOGICAL AIDS FIXED MOBILE | 27.5 – 27.54 METEOROLOGICAL AIDS FIXED MOBILE | 27.5 – 27.54 US340 | 27.5 – 27.54 FIXED LAND MOBILE US340 | PRIVATE LAND MOBILE (90) | |
| 27.54 – 28 METEOROLOGICAL AIDS FIXED MOBILE | 27.54 – 28 METEOROLOGICAL AIDS FIXED MOBILE | 27.54 – 28 METEOROLOGICAL AIDS FIXED MOBILE | 27.54 – 28 FIXED MOBILE US298 US340 | 27.54 – 28 US298 US340 | | |
| 28 – 29.7 AMATEUR AMATEUR-SATELLITE | 28 – 29.7 AMATEUR AMATEUR-SATELLITE | 28 – 29.7 AMATEUR AMATEUR-SATELLITE | 28 – 29.7 US340 | 28 – 29.7 AMATEUR AMATEUR-SATELLITE US340 | AMATEUR (97) | |

| | | | | | | |
|--------------------------------|--------------------------------|--------------------------------|----------------------|-------------------------------------|-----------------------------|--|
| 29.7 - 29.8 FIXED MOBILE | 29.7 - 29.8 FIXED MOBILE | 29.7 - 29.8 FIXED MOBILE | 29.7 - 29.8 US340 | 29.7 - 29.8 LAND MOBILE US340 | PRIVATE LAND MOBILE (90) | |
|--------------------------------|--------------------------------|--------------------------------|----------------------|-------------------------------------|-----------------------------|--|

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|---|--|--|---|---|---|----------------------------|
| Region 1 -- allocation MHz | Region 2 -- allocation MHz | Region 3 -- allocation MHz | Government | Non-Government | Rule part(s) | Special-use frequencies |
| (1) | (2) | (3) | Allocation MHz (4) | Allocation MHz (5) | (6) | (7) |
| 29.8 – 29.89 FIXED MOBILE | 29.8 – 29.89 FIXED MOBILE | 29.8 – 29.89 FIXED MOBILE | 29.8 – 29.89 US340 | 29.8 – 29.89 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| 29.89 – 29.91 FIXED MOBILE | 29.89 – 29.91 FIXED MOBILE | 29.89 – 29.91 FIXED MOBILE | 29.89 – 29.91 FIXED MOBILE US340 | 29.89 – 29.91 US340 | | |
| 29.91 – 30 FIXED MOBILE | 29.91 – 30 FIXED MOBILE | 29.91 – 30 FIXED MOBILE | 29.91 – 30 US340 | 29.91 – 30 FIXED US340 | AVIATION (87) INTERNATIONAL FIXED PUBLIC (23) | |
| * | * | * | * | * | * | * |
| 158.115 – 161.575 FIXED MOBILE except aeronautical mobile S5.226 S5.229 | 158.115 – 161.575 FIXED MOBILE S5.226 S5.230 S5.231 S5.232 | 158.115 – 161.575 FIXED MOBILE S5.226 S5.230 S5.231 S5.232 | 158.115 – 161.575 S5.226 | 158.115 – 161.575 FIXED LAND MOBILE S5.226 NG6 NG28 NG70 NG112 NG124 NG148 | PUBLIC MOBILE (22) PRIVATE LAND MOBILE (90) MARITIME (80) | |
| * | * | * | * | * | * | * |

S5.92 Some countries of Region 1 use radiodetermination systems in the bands 1606.5-1625 kHz, 1635-1800 kHz, 1850-2160 kHz, 2194-2300 kHz, 2502-2850 kHz and 3500-3800 kHz, subject to agreement obtained under Article 14/No. S9.21. The radiated mean power of these stations shall not exceed 50W.

S5.93 *Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Russia, Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1625-1635 kHz, 1800-1810 kHz and 2160-2170 kHz are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under Article 14/No. S9.21.

S5.103 In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1850-2045 kHz, 2194-2498 kHz, 2502-2625 kHz and 2650-2850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.

S5.104 In Region 1, the use of the band 2025-2045 kHz by the meteorological aids service is limited to oceanographic buoy stations.

S5.105 In Region 2, except in Greenland, coast stations and ship stations using radiotelephony in the band 2065-2107 kHz shall be limited to class J3E emissions and to a peak envelope power not exceeding 1kW. Preferably, the following carrier frequencies should be used: 2065.0 kHz, 2079.0 kHz, 2082.5 kHz, 2086.0 kHz, 2093.0 kHz, 2096.5 kHz, 2100.0 kHz and 2103.5 kHz. In Argentina and Uruguay, the carrier frequencies 2068.5 kHz and 2075.5 kHz are also used for this purpose, while the frequencies within the band 2072-2075.5 kHz are used as provided in No. 4323BD/S52.165.

S5.106 In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2065 kHz and 2107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the Bureau should be drawn to these provisions.

S5.107 *Additional allocation:* in Saudi Arabia, Botswana, Eritrea, Ethiopia, Iraq, Lesotho, Libya, Malawi, Somalia, Swaziland and Zambia, the band 2160-2170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W.

S5.108 The carrier frequency 2182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2173.5-2190.5 kHz are prescribed in Articles N38/S31 and 60/S52 and in Articles 37 and 38/Appendix S13.

S5.109 The frequencies 2187.5 kHz, 4207.5 kHz, 6312 kHz, 8414.5 kHz, 12577 kHz and 16804.5 kHz are international distress frequencies for digital selective calling. The conditions

for the use of these frequencies are prescribed in Article N38/S31.

S5.110 The frequencies 2174.5 kHz, 4177.5 kHz, 6268 kHz, 8376.5 kHz, 12520 kHz and 16695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article N38/S31.

S5.111 The carrier frequencies 2182 kHz, 3023 kHz, 5680 kHz, 8364 kHz and the frequencies 121.5 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article N38/S31 and in Article 38/Appendix S13.

The same applies to the frequencies 10003 kHz, 14993 kHz and 19993 kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency.

S5.112 *Alternative allocation:* in Belgium, Bosnia and Herzegovina, Cyprus, Denmark, Spain, France, Greece, Iceland, Italy, Malta, Norway, the United Kingdom, Singapore, Sri Lanka, Turkey and Yugoslavia, the band 2194-2300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

S5.113 For the conditions for the use of the bands 2300-2495 kHz (2498 kHz in Region 1), 3200-3400 kHz, 4750-4995 kHz and 5005-5060 kHz by the broadcasting service, see Nos. S5.16 to S5.20, S5.21 and 2666/S23.3 to 2673/S23.10.

S5.114 *Alternative allocation:* in Belgium, Bosnia and Herzegovina, Cyprus, Denmark, Spain, France, Greece, Iraq, Italy, Malta, Norway, the United Kingdom, Turkey and Yugoslavia, the band 2502-2625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

S5.115 The carrier (reference) frequencies 3023 kHz and 5680 kHz may also be used, in accordance with Article N38/S31 and Article 38/Appendix S13 by stations of the maritime mobile service engaged in coordinated search and rescue operations.

S5.116 Administrations are urged to authorize the use of the band 3155-3195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3155 kHz and 3400 kHz to suit local needs.

It should be noted that frequencies in the range 3000 kHz to 4000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.

S5.117 *Alternative allocation:* in Belgium, Bosnia and Herzegovina, Cameroon, Cyprus, Côte d'Ivoire, Denmark, Egypt, Spain, France, Greece, Iceland, Italy, Liberia, Malta, N

the United Kingdom, Singapore, Sri Lanka, Togo, Turkey and Yugoslavia, the band 3155-3200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

S5.118 *Additional allocation:* in the United States, Japan, Mexico, Peru and Uruguay, the band 3230-3400 kHz is also allocated to the radiolocation service on a secondary basis.

S5.119 *Additional allocation:* in Honduras, Mexico, Peru and Venezuela, the band 3500-3750 kHz is also allocated to the fixed and mobile services on a primary basis.

S5.120 For the use of the bands allocated to the amateur service at 3.5 MHz, 7.0 MHz, 10.1 MHz, 14.0 MHz, 18.068 MHz, 21.0 MHz, 24.89 MHz and 144 MHz in the event of natural disasters, see Resolution 640.

S5.122 *Alternative allocation:* in Argentina, Bolivia, Chile, Ecuador, Paraguay, Peru and Uruguay, the band 3750-4000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

S5.123 *Additional allocation:* in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 3900-3950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under Article 14/No. S9.21.

S5.124 *Additional allocation:* in Canada, the band 3950-4000 kHz is also allocated to the broadcasting service on a primary basis. The power of broadcasting stations operating in this band shall not exceed that necessary for a national service within the frontier of this country and shall not cause harmful interference to other services operating in accordance with the Table.

S5.125 *Additional allocation:* in Greenland, the band 3950-4000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.

S5.126 In Region 3, the stations of those services to which the band 3995-4005 kHz is allocated may transmit standard frequency and time signals.

S5.127 The use of the band 4000-4063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. 4374/S52.220 and Appendix 16/S17).

S5.128 In Afghanistan, Argentina, Armenia, Australia, Azerbaijan, Belarus, Botswana, Burkina Faso, Central African Republic, China, Georgia, India, Kazakhstan, Mali, Moldova, Niger, Kyrgyzstan, Russia, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4063-4123 kHz, 4130-4133 kHz and 4408-4438 kHz, stations of limited power in the fixed

service which are situated at least 600 km from the coast may operate on condition that harmful interference is not caused to the maritime mobile service.

S5.129 On condition that harmful interference is not caused to the maritime mobile service, the frequencies in the bands 4063-4123 kHz and 4130-4438 kHz may be used exceptionally by stations in the fixed service communicating only within the boundary of the country in which they are located with a mean power not exceeding 50 W.

S5.130 The conditions for the use of the carrier frequencies 4125 kHz and 6215 kHz are prescribed in Articles N38/S31 and 60/S52 and in Articles 37 and 38/Appendix S13.

S5.131 The frequency 4209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques (see Resolution 339 WRC-95).

S5.132 The frequencies 4210 kHz, 6314 kHz, 8416.5 kHz, 12579 kHz, 16806.5 kHz, 19680.5 kHz, 22376 kHz and 26100.5 kHz are the international frequencies for the transmission of Maritime Safety Information (MSI) (see Resolution 333 (Mob-87) and Appendix 31/S17).

S5.133 *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5130-5250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. S5.33).

S5.134 The use of the bands 5900-5950 kHz, 7300-7350 kHz, 9400-9500 kHz, 11600-11650 kHz, 12050-12100 kHz, 13570-13600 kHz, 13800-13870 kHz, 15600-15800 kHz, 17480-17550 kHz and 18900-19020 kHz by the broadcasting service is limited to single-sideband emissions with the characteristics specified in Appendix 45/S11 to the Radio Regulations.

S5.135 The use of the bands 5900-5950 kHz, 7300-7350 kHz, 9400-9500 kHz, 11600-11650 kHz, 12050-12100 kHz, 13570-13600 kHz, 13800-13870 kHz, 15600-15800 kHz, 17480-17550 kHz and 18900-19020 kHz by the broadcasting service shall be subject to the planning procedures to be drawn up by a competent world administrative radio conference.

S5.136 The band 5900-5950 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis, as well as to the following services: in Region 1 to the land mobile service on a primary basis, in Region 2 to the mobile except aeronautical mobile (R) service on a primary basis, and in Region 3 to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which

they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.137 On condition that harmful interference is not caused to the maritime mobile service, the bands 6200-6213.5 kHz and 6220.5-6525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.

S5.138 The following bands:

6765-6795 kHz (centre frequency 6780 kHz),

433.05-434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. S5.280,

61-61.5 GHz (centre frequency 61.25 GHz),

122-123 GHz (centre frequency 122.5 GHz), and

244-246 GHz (centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

S5.139 *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6765-7000 kHz to the land mobile service is on a primary basis (see No. S5.33).

S5.140 *Additional allocation:* in Angola, Iraq, Rwanda, Somalia and Togo, the band 7000-7050 kHz is also allocated to the fixed service on a primary basis.

S5.141 *Alternative allocation:* in Egypt, Eritrea, Ethiopia, Guinea, Libya, Madagascar and Malawi, the band 7000-7050 kHz is allocated to the fixed service on a primary basis.

S5.142 The use of the band 7100-7300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3.

S5.143 The band 7300-7350 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis and to the land mobile service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these

services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.144 In Region 3, the stations of those services to which the band 7995-8005 kHz is allocated may transmit standard frequency and time signals.

S5.145 The conditions for the use of the carrier frequencies 8291 kHz, 12290 kHz and 16420 kHz are prescribed in Articles N38/S31 and 60/S52 and in Article 38/Appendix S13.

S5.146 The bands 9400-9500 kHz, 11600-11650 kHz, 12050-12100 kHz, 15600-15800 kHz, 17480-17550 kHz and 18900-19020 kHz are allocated to the fixed service on a primary basis until 1 April 2007, subject to application of the procedure referred to in Resolution 21 (Rev. WRC-95). After 1 April 2007, frequencies in these bands may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.147 On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9775-9900 kHz, 11650-11700 kHz and 11975-12050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

S5.148 The bands 9775-9900 kHz, 11650-11700 kHz, 11975-12050 kHz, 13600-13800 kHz, 15450-15600 kHz, 17550-17700 kHz and 21750-21850 kHz are allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of these bands by the broadcasting service shall be subject to provisions established by the World Administrative Radio Conference for the Planning of the HF Bands Allocated to the Broadcasting Service (see Resolution 508). The provisions of Resolution 512 (HFBC-87) also apply. Within these bands, the date of commencement of operations in the broadcasting service on a planned channel shall not be earlier than the date of completion of satisfactory transfer, according to the procedures described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the Table and other provisions of the Radio Regulations, which are recorded in the Master Register and which may be affected by broadcasting operations on that channel.

* * * * *

S5.150 The following bands:
13533-13567 kHz (centre frequency 13560 kHz),
26957-27283 kHz (centre frequency 27120 kHz),
40.66-40.70 MHz (centre frequency 40.68 MHz),

902-928 MHz in Region 2 (centre frequency 915 MHz),
2400-2500 MHz (centre frequency 2450 MHz),
5725-5875 MHz (centre frequency 5800 MHz), and
24-24.25 GHz (centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications.

Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. 1815/S15.13.

S5.151 The bands 13570-13600 kHz and 13800-13870 kHz are allocated, until 1 April 2007, to the fixed service on a primary basis and to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC-95). After 1 April 2007, frequencies in these bands may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

S5.152 *Additional allocation:* in Armenia, Azerbaijan, Belarus, China, Côte d'Ivoire, Georgia, the Islamic Republic of Iran, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the band 14250-14350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW.

S5.153 In Region 3, the stations of those services to which the band 15995-16005 kHz is allocated may transmit standard frequency and time signals.

S5.154 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the band 18068-18168 kHz is also allocated to the fixed service on a primary basis for use within their boundaries, with a peak envelope power not exceeding 1 kW.

S5.155 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russia, Tajikistan, Turkmenistan and Ukraine, the band 21850-21870 kHz is also allocated to the aeronautical mobile (R) services on a primary basis.

S5.155A In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Republic, Russia, Tajikistan, Turkmenistan and Ukraine, the use of the band 21850-21870 kHz by the fixed service is limited to provision of services related to aircraft flight safety.

S5.155B The band 21870-21924 kHz is used by the fixed service for provision of services

related to aircraft flight safety.

S5.156 *Additional allocation:* in Nigeria, the band 22720-23200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.

S5.156A The use of the band 23200-23350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.

S5.157 The use of the band 23350-24000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.

S5.226 The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency are contained in Article N38/S31 and Article 38/Appendix S13.

In the bands 156-156.7625 MHz, 156.8375-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by the administration (see Articles N38/S31 and 60/S52 and Article 38/Appendix S13).

Any use of frequencies in these bands by stations of other services to which they are allocated should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service.

However, the frequency 156.8 MHz and the frequency bands in which priority is given to the maritime mobile service may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations and taking into account current frequency usage and existing agreements.

S5.229 *Alternative allocation:* in Morocco, the band 162-174 MHz is allocated to the broadcasting service on a primary basis. The use of this band shall be subject to agreement with administrations having services, operating or planned, in accordance with the Table which are likely to be affected. Stations in existence on 1 January 1981, with their technical characteristics as of that date, are not affected by such agreement.

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UNITED STATES (US) FOOTNOTES

* * * * *

US340 The 2-30 MHz band is available on a secondary noninterference basis to Government and non-Government maritime and aeronautical stations for the purposes of measuring the quality of reception on radio channels. See 47 C.F.R. § 87.149 for the list of

protected frequencies and bands within this frequency range. Actual communications shall be limited to those frequencies specifically allocated to the maritime mobile and aeronautical mobile services.

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NON-GOVERNMENT (NG) FOOTNOTES

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NG155 The bands 159.500-159.675 MHz and 161.375-161.550 MHz are allocated to the maritime service as described in Part 80 of this chapter. Additionally, the frequencies 159.550, 159.575 and 159.600 MHz are available for low-power intership communications.

* * * * *

III. Part 80 - Stations in the Maritime Services

5. The authority citation for Part 80 continues to read as follows:

AUTHORITY: Secs. 4, 303, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303, unless otherwise noted. Interpret or apply 48 Stat. 1064-1068, 1081-1105, as amended; 47 U.S.C. 151-155, 301-609; 3 UST 3450, 3 UST 4726, 12 UST 2377.

6. Section 80.13 is amended by revising paragraph (b) to read as follows:

§ 80.13 Station license required.

* * * * *

(b) One ship station license will be granted for operation of all maritime services transmitting equipment on board a vessel. Radiotelegraph and narrow-band directing-printing equipment will not be authorized, however, unless specifically requested by the applicant.

7. Section 80.25 is amended by revising paragraphs (a) and (b) to read as follows:

§ 80.25 License term.

(a) Licenses for ship stations in the maritime services will normally be issued for a term of ten years from the date of original issuance, major modification, or renewal. Licensees may apply for renewal of the station license up to ninety (90) days after the date the license expires.

(b) Licenses other than ship stations in the maritime services will normally be issued for a term of five years from the date of original issuance, major modification, or renewal. Licenses, other than Public Coast and Alaska Public Fixed stations, may be renewed up to ninety (90) days after the date the license expires.

* * * * *

8. In Section 80.89, the text in paragraph (f) is amended to read as follows:

§ 80.89 Unauthorized transmissions.

(a) * * *

(f) Transmit while on board vessels located on land unless authorized under a public coast station license. * * * * *

9. A new Section 80.123 is added under Special Procedures-Public Coast Stations to read as follows:

§ 80.123 Service to stations on land.

Marine VHF public coast stations, including AMTS coast stations, may provide public correspondence service to stations on land in accordance with the following:

- (a) The public coast station licensee must provide each associated land station with a letter, which shall be presented to authorized FCC representatives upon request, acknowledging that the land station may operate under the authority of the associated public coast station's license;
- (b) Each public coast station serving stations on land must afford priority to marine-originating communications through any appropriate electrical or mechanical means.
- (c) Land station identification shall consist of the associated public coast station's call sign, followed by a unique numeric or alphabetic unit identifier;
- (d) Radio equipment used on land must be type accepted for use under Part 22, Part 80, or Part 90 of this chapter. Such equipment must operate only on the public correspondence channels authorized for use by the associated public coast station;
- (e) Transmitter power shall be in accordance with the limits set in § 80.215 for ship stations and antenna height shall be limited to 6.1 meters (20 feet) above ground level;
- (f) Land stations may only communicate with public coast stations and must remain within radio range of associated public coast stations; and,
- (g) The land station must cease operation immediately upon written notice by the Commission to the associated public coast station that the land station is causing harmful interference to marine communications.

10. A new Section 80.133 is added under Special Procedures-Private Coast Stations to read as follows:

§ 80.133 Private coast stations using facsimile in Alaska.

Facsimile techniques may be implemented in accordance with the following paragraphs.

- (a) Private coast stations in Alaska are eligible to use facsimile techniques with associated ship stations and other private coast stations in accordance with § 80.505(b) of this Chapter.
- (b) The frequency 156.425 MHz is assigned by rule to private coast stations in Alaska for facsimile transmissions.
- (c) Equipment used for facsimile operations is subject to the applicable provisions of

Subpart E of this Part.

* * * * *

11. In Section 80.153 paragraph (b) is amended by revising the entry titled "Coast telephone, all classes:" to read as follows:

§ 80.153 Coast station operator requirements.

* * * * *

(b) * * *

Minimum Operator License

* * * * *

Coast telephone, all classes -- None.

* * * * *

12. Section 80.177 is amended by revising paragraph (c) to read as follows:

§ 80.177 When operator license is not required.

* * * * *

(c) No operator license is required to operate coast telephone stations or marine utility stations.

* * * * *

13. Section 80.179 is amended by revising paragraphs (b), (c) and (d) to read as follows:

§ 80.179 Unattended operation.

* * * * *

(b) Automatic use of a transmitter during narrow-band direct-printing (NB-DP) operations in accordance with § 80.219.

(c) Automatic use of a transmitter during selective calling operations in accordance with § 80.225.

(d) Automatic use of a transmitter when operating as part of the Automated Maritime

Telecommunications System (AMTS), an automated multi-station system for which provisions are contained in this Part, or an automated public coast station.

* * * * *

14. Section 80.203 is amended by adding a new paragraph (n) to read as follows:

§ 80.203 Authorization of transmitters for licensing.

* * *

(n) Applications for type acceptance of all marine radio transmitters operating in the 2-27.5 MHz band or the 156-162 MHz band received on or after June 17, 1999, must have a DSC capability in accordance with § 80.225. This requirement does not apply to transmitters used with AMTS or hand-held portable transmitters.

15. In Section 80.205, the table in paragraph (a) is amended by modifying the second "J2B" entry to read as follows:

§ 80.205 Bandwidths.

(a) * * *

| Classes of emission | Emission designator | Authorized bandwidth (kHz) |
|--|---------------------|----------------------------|
| * * * J2B ⁵ * * * * * | 300HJ2B | 0.5 |

⁵ NB-DP radiotelegraph and data transmissions for communications with public coast stations.

* * * * *

16. In Section 80.207, paragraph (a) is revised, paragraphs (a)(1)-(4) are deleted and the table listed in paragraph (d) is amended by revising footnote 1, footnote 2 and adding footnote 13 to read as follows:

§ 80.207 Classes of emission.

(a) Authorization to use radiotelephone and radiotelegraph emissions by ship and coast stations includes the use of digital selective calling and selective calling techniques in accordance with § 80.225.

* * * * *